```
RRR
RRR
RRR
RRR
RRR
              FFF
FFF
FFF
FFF
FFF
              RRR
RRR
RRR
                        RRR
RRR
RRR
```

Va

		AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	
	\$			

SUBROUTINE TUTAPE (LUN)

Version:

'V04-000'

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AUTHOR BRIAN PORTER

CREATION DATE 5-OCT-1979

Fucntional description:

This module displays TU58 errors.

Modified by:

V03-004 SAR0236 Sharon A. Reynolds, 28-Mar-1984 Changed the call to UCB\$L_OWNUIC to ORB\$L_OWNER.

V03-003 SAR0130 Sharon A. Reynolds, 8-Sep-1983 Changed the overprint carriage control in the 'format' statements for use with ERF.

V03-002 SAR0100 Sharon A. Reynolds, 20-Jun-1983 Changed the carriage control in the 'format' statements for use with ERF.

V03-001 SAR0052 Sharon A. Reynolds, 13-Jun-1983 Removed brief/cryptic support.

v02-004 BP0004 Brian Porter, 23-NOV-1981 Minor edit.

v02-003 BP0003 Brian Porter, 05-NOV-1981 Added 'device attention' support.

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*

v02-002 BP0002

v02-001 BP0001

BYTE

BYTE

INTEGER+4

INTEGER+4

INTEGER*4 INTEGER*4

INTEGER+4

INTEGER*4

INTEGER+4

logical*1

PARAMETER

PARAMETER

PARAMETER PARAMETER

EQUIVALENCE EQUIVALENCE

EQUIVALENCE EQUIVALENCE EQUIVALENCE EQUIVALENCE

CHARACTER*11

CHARACTER*19

CHARACTER*7

CHARACTER*17

OP_CODE

DATA

DATA

INCLUDE 'SRC\$: MSGHDR.FOR /NOLIST' INCLUDE 'SRC\$: DEVERR.FOR /NOLIST'

FIELD

RCSR RBUF

XCSR

XBUF

COMPRESS4 COMPRESSO

diagnostic_mode

R*11 UNUSED_BYTE /'UNUSED BYTE'/

OP_CODE

(EMB\$L_DV_REGSAV(0),XCSR) (EMB\$L_DV_REGSAV(1),XBUF) (EMB\$L_DV_REGSAV(2),RCSR) (EMB\$L_DV_REGSAV(3),RBUF) (EMB(98),CMD_PKT(0)) (EMB(112),END_PKT(0))

/'OP CODE'/

PBYTE_COUNT / PACKET BYTE COUNT'/

TIMEOUT = 96

WRITE = 3 POSITION = 5

READ = 2

CMD_PKT(0:13) END_PKT(0:13)

Brian Porter,

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TUTAPE
SEQUENCE LO, HI'/
                              CHARACTER*15
                                             SEQUENCE_LO
                              DATA
                                             R*17 BYTECOUNT_LO / BYTE COUNT LO, HI'/
                              CHARACTER*17
                              DATA
                                                           BLOCK_LO / BLOCK NUMBER LO, HI'/
                              CHARACTER*19
                                             BLOCK_LO
                              DATA
                                             R*15 CHECKSUM_LO 7'CHECKSUM LO, HI'/
                              CHARACTER*15
                              DATA
                              CHARACTER+17 V1RCSR(6:7)
DATA V1RCSR(6) /'INTERRUPT ENABLE+'/
                                                                          /'RECEIVER DONE * 1
                                             VIRCSR(7)
                              DATA
                                             R*16 V2RCSR(11:11)
V2RCSR(11) /'RECEIVER ACTIVE*'/
                              CHARACTER*16
                              DATA
                                            R*15 V1RBUF(12:15)
V1RBUF(12) / PARITY ERROR*'/
V1RBUF(13) / FRAMING ERROR*'
                              CHARACTER+15
                              DATA
                                                                           /'FRAMING ERROR*'/
                              DATA
                                             V1RBUF (14)
V1RBUF (15)
                                                                           /'OVER-RUN ERROR*'/
                              DATA
                                                                           /'ERROR*'/
                              DATA
                              CHARACTER*6
                                                            V1XCSR(0:0)
                                             V1XCSR(0)
                                                                          /'BREAK+'/
                              DATA
                                                           V2XCSR(6:7)

5) /'INTERRUPT ENABLE*'/
7) /'TRANSMITTER READY*'/
                              CHARACTER*18
                                             V2XCSR(6)
V2XCSR(7)
                              DATA
                              DATA
                                            ER*20 V10P CODE(-1:12)
V10P CODE(-1) /'ILLEGAL FUNCTION*'/
V10P CODE(0) /'NO OPERATION*'/
V10P CODE(1) /'INITIALIZE*'/
V10P CODE(2) /'READ*'/
V10P CODE(3) /'WRITE*'/
V10P CODE(4) /'COMPARE*'/
V10P CODE(5) /'POSITION*'/
V10P CODE(6) /'ABORT*'/
V10P CODE(7) /'DIAGNOSE*'/
V10P CODE(8) /'GET STATUS*'/
V10P CODE(9) /'SET STATUS*'/
V10P CODE(10) /'GET CHARACTERISTICS*
V10P CODE(11) /'SET CHARACTERISTICS*
V10P CODE(12) /'ILLEGAL FUNCTION*'/
                              CHARACTER*20
                              DATA
                              DATA
                              DATA
                              DATA
0311
                              DATA
0312
0313
0314
0315
0316
0317
0318
0319
03223
03223
03223
03223
03223
03223
03223
03223
                              DATA
                              DATA
                              DATA
```

/'GET STATUS*'/
/'SET STATUS*'/
/'GET CHARACTERISTICS*'/
/'SET CHARACTERISTICS*'/
/'ILLEGAL FUNCTION*'/

R*16 V2OP CODE (63:65)
V2OP CODE (63) /'ILLEGAL OP CODE*'/
V2OP CODE (64) /'SEND END PACKET*'/
V2OP CODE (65) /'ILLEGAL OP CODE*'/

MODIFIER(0:0)
R(0) /'DATACHECK*'/

DATA

DATA DATA DATA DATA DATA

DATA DATA DATA

DATA

CHARACTER*16

CHARACTER*10

MODIFIER(0)

ER*22 V2SUCCESS CODE(0:12)

V2SUCCESS CODE(0)7'NORMAL COMPLETION*'/

V2SUCCESS CODE(1)/'RETRY COMPLETION*'/

V2SUCCESS CODE(2)/'SELF TEST FAILURE*'/

V2SUCCESS CODE(3)/'PARTIAL OPERATION*'/

V2SUCCESS CODE(4)/'INVALID UNIT NUMBER*'/

V2SUCCESS CODE(5)/'NO CARTRIDGE PRESENT*'/

V2SUCCESS CODE(6)/'WRITE PROTECTED*'/

V2SUCCESS CODE(6)/'BLOCK NOT FOUND*'/

V2SUCCESS CODE(8)/'BLOCK NOT FOUND*'/

V2SUCCESS CODE(9)/'MOTOR STOPPED*'/

V2SUCCESS CODE(10)/'INVALID OP CODE*'/

V2SUCCESS CODE(11)/'INVALID RECORD NUMBER*'/

V2SUCCESS CODE(12)/'ILLEGAL SUCCESS CODE*'/ CHARACTER*22 DATA BYTE_COUNT(9:11)

BYTE_COUNT(9) /' ILLEGAL*'/

BYTE_COUNT(10) /' = 10.*'/

BYTE_COUNT(11) /' ILLEGAL*'/ CHARACTER*9 DATA

DATA

DATA DATA

CALL FRCTOF (LUN) if (emb\$t_dv_name(1:3) .eq. 'CSA') then call dhead1 (lun, 'CONSOLE TU58') else call dhead1 (lun, 'UBA TU58') diagnostic_mode = .false. if (lib\$extzv(2,1,xcsr) .eq. 1) diagnostic_mode = .true. CALL LINCHK (LUN, 2)

TUTAPE

10

15

18

19

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30

ENDIF

else

endif

CALL LINCHK (LUN, 3)

CONTINUE endif

```
VAX-11 FORTRAN V3.4-56
DISK$VMSMASTER: [ERF.SRC]TUTAPE.FOR; 1
TUTAPE
0444489012345567890123465678901234556789012346567890123477778904881
                             IF (CMD_PKT(0) .NE. 2) THEN
                             WRITE(LUN,40)
FORMAT(/' ', 'COMMAND PACKET HAS INVALID FLAG',/)
              40
                             DO 44.I = 0.14
                             CALL LINCHK (LUN, 1)
                             WRITE(LUN,42) CMD_PKT(1)
FORMAT(' ,T30,Z2.2)
              42
                             CONTINUE
                             ELSE
                             WRITE(LUN,45)
FORMAT(/'', COMMAND MESSAGE PACKET',/)
              45
                             CALL LINCHK (LUN.2)
                             WRITE(LUN,50) CMD_PKT(0), CONTROL_PACKET FORMAT(' ', T8, 'FLAG', T30, Z2.2, /, T40, A19)
               50
                             CALL LINCHK (LUN, 2)
                             FIELD = LIBSEXTZV(0,8,CMD_PKT(1))
                            WRITE(LUN,55) PBYTE COUNT, CMD PKT(1), PBYTE COUNT,

1 BYTE COUNT(MAX(9, MIN(11, FIELD)))

FORMAT(' ', T8, A17, T30, Z2.2, /,

1 T40, A17, A<COMPRESSC (BYTE COUNT(MAX(9, MIN(11, FIELD))))))
                             CALL LINCHK (LUN, 2)
                            FIELD = LIBSEXTZV(0,8,CMD_PKT(2))
                            WRITE(LUN,60) OP_CODE,CMD_PKT(2),V1OP_CODE(MAX(-1,MIN(11,FIELD)))
FORMAT(' ',T8,A7,T30,Z2.2./,T40,
1 'FUNCTION = ',A<COMPRESSC (V1OP_CODE(MAX(-1,MIN(11,FIELD))))>)
0482
0483
0484
0485
0486
0487
0488
0491
0493
0493
0494
0495
0498
0499
              60
                             CALL LINCHK (LUN,1)
                             WRITE(LUN,65) CMD_PKT(3)
FORMAT(' ,T8,'OP CODE MODIFIER',T30,Z2.2)
                             CALL OUTPUT (LUN, CMD_PKT(3), MODIFIER, 0, 0, 0, '0')
                             CALL LINCHK (LUN, 2)
                             FIELD = LIBSEXTZV(0,8,CMD_PKT(4))
                            WRITE(LUN,68) CMD PKT(4), UNIT_NUMBER, FIELD FORMAT(" , T8, "UNIT", T30, Z2.2, / 1 T40, A14, I < COMPRESS4 (FIELD)>, '.')
                             CALL LINCHK (LUN,1)
```

Page

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16-Sep-1984 00:16:59
5-Sep-1984 14:24:09
                                                                                                                                   VAX-11 FORTRAN V3.4-56
DISK$VMSMASTER: LERF.SRCJTUTAPE.FOR; 1
TUTAPE
                                                                                                                                                                                         Page
                       WRITE(LUN, 70) UNUSED_BYTE, CMD_PKT(5) FORMAT(1, 18, A11, 130, 22.2)
           70
                       CALL LINCHK (LUN.2)
                       WRITE(LUN,75) SEQUENCE_LO,CMD_PKT(6),CMD_PKT(7) FORMAT(',18,A15,T30,Z2.2,/,T30,Z2.2)
           75
                       CALL LINCHK (LUN.2)
                       WRITE(LUN, 80) BYTECOUNT LO, CMD_PKT(8) FORMAT(', T8, A17, T30, Z2.2)
                       Field = ' '
                        IF (CMD_PKT(2) .EQ. READ
                        2 CMD_PKT(2) .EQ. WRITE) THEN
                       FIELD = LIBSEXTZV(0,16,CMD_PKT(8))
ENDIF
                       WRITE(LUN, 85) CMD_PKT(9), FIELD

FORMAT(' , T30, Z2.2, :, T40,

1 'TRANSFER BYTE COUNT = ', I < COMPRESS4 (FIELD) >, '.')
                       CALL LINCHK (LUN.2)
                       WRITE(LUN, 90) BLOCK_LO, CMD_PKT(10) FORMAT(1, 18, A19, 130, 22.2)
                       Field = ' '
                        IF (CMD_PKT(2) .EQ. POSITION
                          CMD_PKT(2) .EQ. READ
                        4 CMD_PKT(2) .EQ. WRITE) THEN
                       FIELD = LIBSEXTZV(0,16,CMD_PKT(10))
                        ENDIF
                       WRITE(LUN,95) CMD_PKT(11),FIELD
FORMAT(' ,T30,Z2.2,:,T40,
1 'REQUESTÉD BLOCK = ',I<COMPRESS4 (FIELD)>,'.')
                        CALL LINCHK (LUN.2)
                        WRITE(LUN, 100) CHECKSUM LO, CMD PKT(12), CMD PKT(13) FORMAT( ,18, A15, T30, Z2.2, /, T30, Z2.2)
            100
                        ENDIF
                        CALL LINCHK (LUN, 3)
                        IF (END_PKT(0) .NE. 2) THEN
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TUTAPE
                         WRITE(LUN, 105)
FORMAT(/' ', 'END PACKET HAS INVALID FLAG',/)
             105
                         DO 115.I = 0.13
                          CALL LINCHK (LUN.1)
                         WRITE(LUN, 110) END PKT(1) FORMAT(', T30, Z2.2)
            110
            115
                          CONTINUE
                          ELSE
                         WRITE(LUN, 120)
FORMAT(/' ', 'END MESSAGE PACKET',/)
            120
                          CALL LINCHK (LUN.2)
                         WRITE(LUN, 125) END PKT(0), CONTROL PACKET FORMAT(' , T8, 'FLAG', T30, 22.2, /, T40, A19)
             125
                         CALL LINCHK (LUN.2)
                         FIELD = LIBSEXTZV(0,8,END_PKT(1))
                         WRITE(LUN,130) PBYTE_COUNT.END_PKT(1),PBYTE_COUNT,
1 BYTE_COUNT(MAX(9,MIN(11,FIELD)))
FORMAT(' ',T8,A17,130,Z2.2./,
1 T40,A17,A<COMPRESSC (BYTE_COUNT(MAX(9,MIN(11,FIELD))))>)
            130
                         CALL LINCHK (LUN, 2)
                         FIELD = LIBSEXTZV(0,8,END_PKT(2))
                         WRITE(LUN, 135) OP_CODE, END_PKT(2), V2OP_CODE(MAX(63, MIN(65, FIELD)))
FORMAT(* .T8.A7.T30, Z2.2.7,
1 T40, A<COMPRÉSSC (V2OP_CODÉ(MAX(63, MIN(65, FIELD))))>)
            135
                          CALL LINCHK (LUN.2)
                         WRITE(LUN, 140) END PKT(3)
FORMAT(', T8, 'SUCCESS CODE', T30, Z2.2)
                          J = 12
                         00 155.1 = 0.11
0605
0606
0607
0608
0609
0610
0611
0612
0613
                          IF (END_PKT(3) . EQ. V1SUCCESS_CODE(1)) J = I
             155
                          CONTINUE
                          WRITE(LUN, 160) V2SUCCESS_CODE(J)
FORMAT(', 140, A < COMPRESSC (V2SUCCESS_CODE(J))>)
             160
                          CALL LINCHK (LUN, 2)
```

VAX-11 FORTRAN V3.4-56 DISKSVMSMASTER: [ERF.SRC]TUTAPE.FOR; 1 UBA

FUN

Page

```
TUTAPE
                                                                                                                                                  VAX-11 FORTRAN V3.4-56
DISK$VMSMASTER: [ERF.SRC]TUTAPE.FOR; 1
0615
0616
0617
0618
0619
0620
0621
0623
0623
0625
0625
0626
0631
0632
0633
                          FIELD = LIBSEXTZV(0,8,END_PKT(4))
                          WRITE(LUN, 170) END PKT(4), UNIT NUMBER, FIELD FORMAT(', T8, 'UNIT', T30, 22.2,7, T40, A14, 1 I < COMPRESS4 (FIELD)>, '. ')
             170
                           CALL LINCHK (LUN.1)
                          WRITE(LUN, 175) UNUSED_BYTE, END_PKT(5) FORMAT(* , 18, A11, 130, 22.2)
             175
                          CALL LINCHK (LUN.2)
                          WRITE(LUN, 180) SEQUENCE_LO, END_PKT(6), END_PKT(7) FORMAT( 18, A15, T30, Z2.2, 7, T30, Z2.2)
             180
                          CALL LINCHK (LUN,2)
                          FIELD = LIB$EXTZV(0,16,END_PKT(8))
0635
0636
0637
0638
0639
                          WRITE(LUN, 185) BYTECOUNT_LO, END_PKT(8), END_PKT(9), FIELD FORMAT(' ', T8, A17, T30, Z2.2, /, 1 T30, Z2.2, T40, 'RYTES TRANSFÉRED = ', I < COMPRESS4 (FIELD) >, '.')
             185
                          CALL LINCHK (LUN.2)
0640
0641
0642
0643
0644
                          WRITE(LUN, 190) END PKT(10), END PKT(11)
FORMAT(* , T8, 'STATUS', T30, Z2.2, /, T30, Z2.2)
             190
                          CALL OUTPUT (LUN, END_PKT(12), V1SUM_STATUS, 4, 4, 7, '0')
                          CALL LINCHK (LUN,2)
                          WRITE(LUN, 195) CHECKSUM LO, END PKT(12), END PKT(13) FORMAT( , 18, A15, T30, Z2.2, /, T30, Z2.2)
             195
                          ENDIF
0651
0652
0653
0654
0655
                           endif
                          call linchk (lun,1)
                          write(lun,200)
format(',:)
0656
0657
             200
0658
0659
0660
0661
0662
0663
0664
0665
0666
                          if (emb$w_hd_entry .ne. 98) then
                          call ucb$b_ertcnt (lun,emb$b_dv_ertcnt)
                          call_ucb$b_ertmax (lun,emb$b_dv_ertmax)
                           end if
                          call orb$l_owner (lun,emb$l_dv_ownuic)
                          call ucb$l_char (lun,emb$l_dv_char)
                           call ucb$w_sts (lun,emb$w_dv_sts)
                           call ucb$l_opcnt (lun,emb$l_dv_opcnt)
```

```
L 11
16-Sep-1984 00:16:59
5-Sep-1984 14:24:09
TUTAPE
                                                                                                                                           VAX-11 FORTRAN V3.4-56
DISKSVMSMASTER: [ERF.SRC]TUTAPE.FOR: 1
                                                                                                                                                                                                     Page 10
0672
0673
0674
0675
0676
0677
0678
0687
0683
0684
0685
0686
0687
0688
0689
0691
0692
0693
0694
                         call ucb$w_errcnt (lun,emb$w_dv_errcnt)
                         if (emb$w_hd_entry .ne. 98) then
                         call ucb$l_media (lun,emb$l_dv_media)
                         call linchk (lun.1)
                         write(lun,200)
                         call tutape_gio (lun,emb$w_dv_func)
                         call irp$w_bcnt (lun,emb$w_dv_bcnt)
                         call irp$w_boff (lun,emb$w_dv_boff)
                         call irp$l_pid (lun,emb$l_dv_rqpid)
                         call irp$q_iosb (lun,emb$l_dv_iosb1)
endif
                         RETURN
                         END
PROGRAM SECTIONS
                                                                             Attributes
                                                                 Bytes
      Name
                                                                  3247
906
2008
512
                                                                             PIC CON REL LCL
PIC CON REL LCL
PIC CON REL LCL
PIC OVR REL GBL
     $CODE
      SPDATA
                                                                                                          SHR
                                                                                                                             RD
                                                                                                                                  NOWRT
                                                                                                                                           LONG
   2 $LOC
                                                                                                       NOSHR
      SLOCAL
                                                                                                                                           LONG
                                                                                                                NOEXE
                                                                                                                                     WRT
                                                                                                                                           LONG
                                                                  6673
      Total Space Allocated
ENTRY POINTS
      Address Type Name
  0-00000000
                              TUTAPE
VARIABLES
                                                                                       Address Type
      Address Type Name
                                                                                      -000003D9
-000003A4
-00000377
-00000010
-0000003E
                                                                                                              BYTECOUNT LO
COMMAND PACKET
DIAGNOSTIC MODE
EMB$B_DV_ERTCNT
EMB$B_DV_NAMLNG
EMB$B_DV_TYPE
                             BLOCK LO
CHECKSUM LO
CONTROL PACKET
EMB$B_DV_CLASS
EMB$B_DV_ERTMAX
EMB$B_DV_SLAVE
     -000003EA
-000003FD
-00000391
                                                                                                       CHAR
                       CHAR
                      CHAR
                                                                                                       L+1
      0000001c
                                                                                                       L+1
                       L+1
                                                                                                       L+1
                       L+1
```

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```
M 11
                                                                                                                                       16-Sep-1984 00:16:59 VAX-11 FORTRAN V3.4-56 P
5-Sep-1984 14:24:09 DISKSVMSMASTER:[ERF.SRC]TUTAPE.FOR:1
TUTAPE
                                                                                                                                                                                                                                                                      Page 11
                                                                                                             3-00000012 I+4
3-00000026 I+4
3-0000002E I+4
3-0000003F CHAR
3-0000003C I+2
3-0000003C I+2
3-0000000E I+4
AP-00000004 L+1
2-00003B9 CHAR
3-000005A I+4
2-00000378 CHAR
3-0000056 I+4
                                       EMB$L_DV_CHAR
EMB$L_DV_IOSB2
EMB$L_DV_NUMREG
EMB$L_DV_OWNUIC
EMB$L_HD_SID
EMB$W_DV_BCNT
EMB$W_DV_ERRCNT
EMB$W_DV_STS
EMB$W_HD_ENTRY
FIELD
                                                                                                                                                  EMB$L_DV_IOSB1
EMB$L_DV_MEDIA
EMB$L_DV_OPCNT
EMB$L_DV_ROPID
EMB$T_DV_NAME
EMB$W_DV_BOFF
EMB$W_DV_FUNC
EMB$W_DV_UNIT
EMB$W_HD_ERRSEQ
    3-00000036
3-00000016
3-0000004E
3-00000032
3-00000000
3-00000024
                              1+4
                              1+4
                              1+4
                              1+4
                             1.5
      3-0000001A
     3-0000001A
2-0000040C
2-00000414
2-000003B2
3-0000005E
                              1+4
                                                                                                                                                   LUN
                                                                                                                                       CHAR PBYTE_COUNT
1+4 RCSR
CHAR UNIT_NUMBER
                             CHAR OP CODE
     2-000003CA
                             CHAR SEQUENCE LO
     2-00000386
3-00000052
                                                                                                                                       I+4 XBUF
                             1+4
                                      XCSR
ARRAYS
        Address Type Name
                                                                                                                        Bytes Dimensions
     2-0000035C
3-00000062
                             CHAR BYTE COUNT
                                                                                                                                        (9:11)
                             L+1 CMD_PKT
                                                                                                                                       (0:13)
     3-00000062
3-00000000
3-00000052
3-00000070
2-000001E0
2-00000032
2-00000000
2-00000232
2-000001EA
2-000001EA
                                                                                                                             512
                                                                                                                                      (0:511)
                             I+4 EMBSL_DV_REGSAV
I+4 EMBSQ_HS_TIME
L+1 END_PRT
CHAR MODIFIER
                                                                                                                                      (0:104)
                                                                                                                                      (2)
(0:13)
                                                                                                                               10
                                                                                                                                      (0:0)
                              CHAR VIOP_CODE
                                                                                                                             280
                                                                                                                                       (-1:12)
                             CHAR VIRBUF
                                                                                                                                       (12:15)
                             CHAR VIRCSR
                                                                                                                                       (6:7)
                             L+1 VISUCCESS_CODE
                                                                                                                                       (0:11)
                             CHAR VISUM_STATUS
                                                                                                                                       (4:7)
                             CHAR VIXCSR
                                                                                                                              48
                                                                                                                                       (0:0)
                              CHAR V20P CODE
                                                                                                                                     (63:65)
     2-00000022
2-0000023E
                              CHAR VZRCSR
                                                                                                                                      (11:11)
                             CHAR VZSUCCESS_CODE CHAR VZXCSR
                                                                                                                                      (0:12)
    2-00000074
                                                                                                                                      (6:7)
LABELS
                                                                                                                                                                        Label
        Address
                             Label
                                                      Address
                                                                            Label
                                                                                                     Address
                                                                                                                          Label
                                                                                                                                                    Address
                                                                                                                                                                                                  Address
                                                                                                                                                                                                                       Label
                                                                                                                                                                                                                                                 Address
                                                                                                                                                                                                                                                                      Label
                                                                                                                                                                                              1-0000007E
1-000000E7
1-00000192
1-00000222
1-00000291
1-00000303
                                                                                                                                                                                                                                            1-0000008F
1-00000105
1-0000019F
1-00000235
1-000002A9
1-00000310
                                                                                                                                                                                                                       20°
45°
70°
100°
130°
                                                  1-00000052
1-000000B7
1-00000133
1-000001BF
                                                                                                                          18'
42'
65'
90'
120'
                                                                                                                                                                                                                                                                      25°
50°
75°
105°
135°
     1-00000040
                                                                                                 1-00000063
    1-000000A6
1-0000011B
1-000001B2
1-00000258
                             30.
                                                                                                                                                                        44
68'
95'
125'
170'
                                                                                                 1-000000DE
1-00000156
                                                                            40"
                                                                                                                                                        **
                                                                            60°
85°
115
155
                                                                                                                                                1-00000173
1-000001F9
                             80'
                                                                                                 1-000001EC
1-00000261
                                                                                                                                                1-0000027B
1-000002E4
1-00000382
                                                      **
     1-000002BF
1-00000323
                              140
                                                           **
                                                                                                 1-00000208
                                                                                                                                                                                                                                                                      180'
                                                  1-00000356
                                                                                                 1-0000036F
```

DW

LAE

FUN

Page 12

UCB\$L_OPCNT

Subroutine TUTAPE_QIO (lun,emb\$w_dv_func) include 'src\$:qiocommon.for /nolist' byte lun

integer*2 emb\$w_dv_func integer*4 qiocode(0:1,0:63)

if (giocode(0,0) .eq. 0) then qiocode(1,09) = %loc(io\$_search) qiocode(1,11) = %loc(io%_writepblk) qiocode(1,12) = %loc(io%_readpblk) qiocode(1,26) = %loc(io\$_setchar) qiocode(1,27) = %loc(io%_sensechar) qiocode(1,29) = %loc(io%_diagnose) qiocode(1,32) = %loc(io\$_writelblk) qiocode(1,33) = %loc(ios_readlblk) qiocode(1,35) = %loc(io\$_setmode) qiocode(1,39) = %loc(io\$_sensemode) qiocode(1,48) = %loc(io\$_writevblk) qiocode(1,49) = %loc(ios_readvblk) giocode(1,50) = %loc(io%_access) qiocode(1,51) = %loc(io\$_c^eate) qiocode(1,52) = %loc(io\$_deaccess) qiocode(1,53) = %loc(io\$_delete) qiocode(1,54) = %loc(io%_modify) qiocode(1,56) = %loc(io\$_acpcontrol) qiocode(1,57) = %loc(io%_mount)

do 10, i = 0.63

ENT

DW7

PRO

VAR

AP

ARR

LAB

FUN

```
C 12
16-Sep-1984 00:16:59
5-Sep-1984 14:24:09
TUTAPE_QIO
                                                                                                                                                                                                 VAX-11 FORTRAN V3.4-56
DISKSVMSMASTER: [ERF.SRC]TUTAPE.FOR: 1
                                   qiocode(0,i) = 33
                                   if (giocode(1.i) .eq. 0) then
                                   qiocode(1,i) = %loc(qio_string)
endif
                 10
                                   continue
                                   endif
                                   call irp$w_func (lun.emb$w_dv_func,
1 qiocode(0,lib$extzv(0,6,emb$w_dv_func)))
                                   return
                                   end
PROGRAM SECTIONS
        Name
                                                                                                            Attributes
                                                                                          Bytes
                                                                                                           PIC CON REL LCL
PIC CON REL LCL
PIC CON REL LCL
PIC OVR REL GBL
                                                                                              225
        $CODE
                                                                                                                                                   SHR EXE
                                                                                                                                                                             RD
RD
RD
                                                                                                                                                                                    NOWRT LONG
        SPDATA
                                                                                                                                                                                    NOWRT LONG
    2 $LOCAL
3 QIOCOMMON
                                                                                            548
1247
                                                                                                                                              NOSHR NOEXE
                                                                                                                                                                                         WRT LONG
                                                                                                                                                   SHR NOEXE
                                                                                                                                                                                         WRT LONG
                                                                                            2028
        Total Space Allocated
ENTRY POINTS
        Address Type
                                         Name
   0-00000000
                                         TUTAPE_Q10
VARIABLES
        Address Type Name
                                                                                                                         Address Type Name
 AP-00000008a
3-0000442
3-00003c2
3-0000297
3-0000385
3-0000026D
3-000004CB
3-0000014
3-0000052
3-0000090
3-0000060
3-00000421
                             I*2 EMBSW DV FUNC
CHAR IOS ABORT
CHAR IOS ACPCONTROL
CHAR IOS CLEAN
CHAR IOS DEACCESS
CHAR IOS DIAGNOSE
CHAR IOS DSE
CHAR IOS FORMAT
CHAR IOS HOADMCODE
CHAR IOS OFFSET
CHAR IOS OFFSET
CHAR IOS READCSR
                                                                                                                     2-00000200
3-0000340
3-00000483
3-00000369
3-00000393
3-00000065
3-00000071
3-00000341
3-000000000
3-000000EB
3-00000169
                                                                                                                                              CHAR IOS ACCESS
CHAR IOS AVAILABLE
CHAR IOS CREATE
CHAR IOS DELETE
CHAR IOS DRVCLR
CHAR IOS ERASETAPE
CHAR IOS INITIALIZE
CHAR IOS MODIFY
CHAR IOS NOP
                                                                                                                                                          IOS NOP
IOS PACKACK
IOS RDSTATS
                                                                                                                                               CHAR
                                                                                                                                               CHAR
                                                                                                                                               CHAR
                                                                                                                                                          105 READHEAD
                                                                                                                                               CHAR
```

PRO

ENT

VAR

```
16-Sep-1984 00:16:59 VAX-11 FORTRAN V3.4-56
5-Sep-1984 14:24:09 DISK$VMSMASTER:[ERF.SRC]TUTAPE.FOR;1
   TUTAPE_Q10
                                                                                       CHAR IOS READLBLK
CHAR IOS READPRESET
CHAR IOS READVBLK
CHAR IOS READWTHXBUF
CHAR IOS RELEASE
CHAR IOS REWIND
CHAR IOS SEARCH
CHAR IOS SENSECHAR
CHAR IOS SETCHAR
CHAR IOS SETCHAR
CHAR IOS SETCHAR
CHAR IOS STARTDATA
CHAR IOS WRITEBUFNCRC
CHAR IOS WRITECHECKH
CHAR IOS WRITEHEAD
                   3-000002B6
3-00000200
3-0000033A
3-000004B4
3-0000007C
3-000001B8
3-000002E6
3-000000FC
                                                                                                                                                                                                                                                                                                                                                     3-0000013F
3-00000195
3-0000045A
3-000001AB
3-000002C9
3-000002C9
3-000002DA
3-000002DA
3-000002FA
3-000002DA
3-0000010E
3-0000010E
3-0000011E
3-00000314
3-00000314
3-00000357
3-000004A1
                                                                                                                                                                                                                                                                                                                                                                                                                                    CHAR IOS READTRACKD CHAR IOS READWITHBUF
                                                                                                                                                                                                                                                                                                                                                                                                                                 R IOS READWTHBUF
R IOS RECAL
R IOS RETCENTER
AR IOS REWINDOFF
AR IOS SEEK
AR IOS SEEK
AR IOS SETCLOCK
IAR IOS SETCLOCK
IAR IOS SETCLOCK
IAR IOS SETTLOCK
IAR IOS WITTLOCK
IAR IOS WRITECHECK
CHAR IOS 
                       -00000231
-0000021b
                       -000000088
                       -000002ED
                       -00000357
-00000037
                       -00000059
                       -0000046B
                   3-00000468
3-000001E4
3-00000153
3-00000247
3-0000017E
3-0000017E
         AP-000000049 L*1 LUN
 ARRAYS
                         Address Type Name
                                                                                                                                                                                                                                                           Bytes Dimensions
                                                                                                                                                                                                                                                                      512 (0:1, 0:63)
           2-00000000 I+4 QIOCODE
LABELS
                         Address
                                                                                         Label
                                                                                           10
FUNCTIONS AND SUBROUTINES REFERENCED
            Type Name
                                                                                                                                                           Type Name
                                                   IRP$H_FUNC
                                                                                                                                                       I*4 LIBSEXTZV
COMMAND QUALIFIERS
            FORTRAN /LIS=LIS$:TUTAPE/OBJ=OBJ$:TUTAPE MSRC$:TUTAPE
           /CHECK=(NOBOUNDS,OVERFLOW,NOUNDERFLOW)
/DEBUG=(NOSYMBOLS,TRACEBACK)
/STANDARD=(NOSYNTAX,NOSOURCE_FORM)
            /SHOW=(NOPREPROCESSOR, NOINCLODE, MAP)
/F77 /NOG_FLOATING /14 /OPTIMIZE /WARNINGS /NOD_LINES /NOCROSS_REFERENCE /NOMACHINE_CODE /CONTINUATIONS=19
```

DW7

LAB

FUN

16-Sep-1984 00:16:59 5-Sep-1984 14:24:09

VAX-11 FORTRAN V3.4-56 DISK\$VMSMASTER: [ERF.SRC]TUTAPE.FOR; 1

COMPILATION STATISTICS

11.14 seconds 29.09 seconds 266 251 pages Run Time: Elapsed Time: Page Faults: Dynamic Memory:

0154 AH-BT13A-SE

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